

International Application No.
PCT/JP2004/000959

According to International Patent Classification (IPC) or to both national classification and IPC

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04B H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 572 252 A (AMERICAN TELEPHONE & TELEGRAPH) 1 December 1993 (1993-12-01) abstract column 2, line 44 - column 4, line 42	7,8
Y	figures 1-3,6,7 -----	1-6
Y	US 6 311 071 B1 (ANDERSON MARLYN J ET AL) 30 October 2001 (2001-10-30) column 6, line 47 - line 67 figures 2,4 -----	1-6
A	EP 0 684 704 A (AT & T CORP) 29 November 1995 (1995-11-29) abstract column 2, line 42 - column 3, line 43 figures 1-4 -----	1-8
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

10 August 2004

Date of mailing of the international search report

19. 08. 04

Name and mailing address of the ISA
European Patent Office, P.B. 5618 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bianchi, D

INTERNATIONAL SEARCH REPORT

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98/05148 A (NAKATANI KOICHIRO ;NIHON VELBON SEIKI KOGYO (JP)) 5 February 1998 (1998-02-05) cited in the application abstract figures 1-3	1-8
X	----- EP 0 907 279 A (NOKIA MOBILE PHONES LTD) 7 April 1999 (1999-04-07) abstract column 2, line 39 - column 3, line 27 figures 1-4	9-15
A	----- WO 01/61970 A (CALDANA FRANCO ;CALDANA MARCUS (IT)) 23 August 2001 (2001-08-23) abstract page 2, line 5 - line 29 figures 1,2	9,12
A	----- EP 0 782 308 A (FERNANDEZ MARTINEZ JOSE IGNACI) 2 July 1997 (1997-07-02) abstract column 3, line 5 - line 19 figure 1 -----	9,12

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0572252	A	01-12-1993	US 5239521 A	24-08-1993
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			DE 69321033 T2	04-03-1999
			EP 0572252 A1	01-12-1993
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			DE 69629448 T2	09-06-2004
			EP 0782308 A1	02-07-1997
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			WO 9633569 A1	24-10-1996

INTERNATIONAL SEARCH REPORT

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8

A wrist-worn communication apparatus comprising:

- a device,
- a band for wearing the device on a user's wrist,
- a speaker unit disposed on the band (claim 1) or on a support member (claim 5) or on a pivotable support member (claim 7), the speaker facing in a transverse direction of the band, and
- a microphone disposed on the band (claim 1) or on a support member (claim 5) or on a pivotable support member (claim 7), the microphone being placed as to face in a direction perpendicular to a surface of the band.

2. claims: 9-15

A wrist-worn communication apparatus comprising:

- a device,
- a band for wearing the device on a user's wrist,
- a communication unit having a key-in unit provided on an opposite side of the user's wrist, on which the device is worn,
- a hinged lid comprising a display provided thereon,
- a speaker unit provided on the lid on the opposite side of the display unit from the hinge,
- a microphone unit provided on the opposite side of the key unit from the hinge (claim 9) or at a position remote from the speaker unit (claim 12).
